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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/526,442	03/16/2000	Kamran Ahmed	10442-5"US" JA/mb	2596

20988 7590 03/27/2002

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EXAMINER

BRIER, JEFFERY A

ART UNIT	PAPER NUMBER
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2672

DATE MAILED: 03/27/2002

Please find below and/or attached an Office communication concerning this application or proceeding.

15

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Office Action Summary

Application No.

09/526,442

Applicant(s)

AHMED, KAMRAN

Examiner

Jeffery A. Brier

Art Unit

2672

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on _____.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-7 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 1, 2, 4 and 6 is/are allowed.
- 6) ☒ Claim(s) 3, 5 and 7 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☒ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 March 2000 is/are: a) ☐ accepted or b) ☒ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
* See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892) 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948) 5) ☐ Notice of Informal Patent Application (PTO-152)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5. 6) ☐ Other: _____

DETAILED ACTION

Drawings

1. The drawings are objected to under 37 CFR 1.83(a). The drawings must show every feature of the invention specified in the claims. Therefore, the scaling unit receiving an output of the combining unit of claims 4 and 6 must be shown and described in the specification (if the claimed scaling unit is the output scaler shown in figure 2, then a reference numeral should be given to the output scaler and a description of this unit in the specification is needed) or the feature(s) canceled from the claim(s). No new matter should be entered.

A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

2. The drawings are objected to because system elements in figures 1 and 2 do not have a clear description in the specification by the use of reference numerals. In figure 1 the graphics device driver and the graphics subsystem manager need reference numerals and a corresponding description in the specification. In figure 2 the FIFOs, multiplexer, blending unit and output scaler need reference numerals and a corresponding description in the specification. A proposed drawing correction or corrected drawings are required in reply to the Office action to avoid abandonment of the application. The objection to the drawings will not be held in abeyance.

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Specification

3. The disclosure is objected to because of the following informalities: the fax machine did not print page 2 line 9 correctly. A copy of this page is attached to this office action. Applicant is requested to correct this by making an amendment under 37 CFR 1.121.

Appropriate correction is required.

Claim Rejections - 35 USC § 112

4. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

5. Claims 3, 5 and 7 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

Claim 3:

Claim 3 is indefinite because at line 4 applicant claims "one scaling units". This is indefinite because it is not clear if applicant intends "one scaling units" to be "at least one scaling units" or a typo error exists. At lines 5-6 "the unconverted surface" lacks antecedent basis in the claim.

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Claim 5:

Claim 5 is similar to claim 3 and is indefinite for the same reasons that claim 3 is indefinite.

Claim 7:

This claim is indefinite because at line 11 "said backend scalers" lacks antecedent basis in the claim.

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Larson, U.S. Patent No. 6,297,817, teaches a system having two graphics chips with each chip driving a monitor.

Sinclair et al., U.S. Patent No. 6,177,946, teaches a system having two circuits with each circuit driving a monitor or a television and each circuit is capable of performing various color space conversions and one circuit is also capable of scaling and blending.

Chee, U.S. Patent No. 5,694,141, teaches two displays which display differing images.

Economy et al., U.S. Patent No. 4,965,745, teaches processing an input video signal by color space conversion, scaling, storing, smoothing, blending and scaling.

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Allowable Subject Matter

7. Claims 1, 2, 4 and 6 allowed. Claims 3, 5 and 7 would be allowable if rewritten or amended to overcome the rejection(s) under 35 U.S.C. 112, second paragraph, set forth in this Office action.

8. The following is a statement of reasons for the indication of allowable subject matter: The prior art of record fails to teach or suggest a single graphics controller system having first and second display controllers where each display controller selects and reads surfaces from a graphics memory, converts the surfaces to a like format, scales at least one surface, combines the surfaces, and outputs the combined surfaces to provide an output stream of pixel data whereby flexibility is provided by selection of first and second surfaces as well as scaling and blending of the first surface by the first display controller and scaling and blending of the second surfaces by the second display controller whether the surfaces are in RGB format, YUV format or mixed RGB/YUV format.

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9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jeffery A. Brier whose telephone number is (703) 305-4723. The examiner can normally be reached on M-F from 6:30 to 3:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi, can be reached at (703) 305-4713).

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

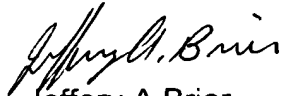
Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.


Jeffery A Brier
Primary Examiner
Art Unit 2672